

Section 80 Fences

Section 80 Fences

4-8001 General

This section describes the work for constructing barbed wire fence, wire mesh fence, and chain link fence.

4-8001 General

4-8002 Before Work Begins

Review the plans, special provisions, and right-of-way agreements for any special details. If it is necessary to revise, add, or delete fence on a contract, review the *Highway Design Manual* for the general policy on such actions and consult with the project engineer if necessary. You should also do the following:

4-8002 Before Work Begins

- Do not move, add, or delete gates or openings without first consulting the design project engineer, the maintenance engineer, and other interested parties. If federal funds are involved, ensure the Federal Highway Administration (FHWA) approves any changes.
- Be alert to the necessity of constructing fences to prevent livestock escaping from adjacent properties. (Section 15-2.05B of the *Standard Specifications*)
- Compare the planned location with actual field conditions to ensure that fences, gates, openings, and other fencing items will serve as intended.
- Fences should not obstruct flow in streams or drainage areas.
- It is also possible to construct fences on top of retaining walls and wing walls. Wherever this type of construction is necessary, check the location of postholes, and ensure provision is made for future post installation.
- Upon delivery of the materials to the job site, note whether they are identified by marks or inspection tags (use Form TL-0624, "Inspection Release Tag") and match these marks or tags against Form TL-0029, "Report of Inspection of Material." Determine the final acceptability of the fence material as outlined in the Table 6-2.1 entitled "Inspection of Fabricated and Manufactured Materials" in Section 6-2, "Acceptance of Manufactured Material and Sampling Methods," of the *Construction Manual* (manual).
- Arrange for necessary control staking when the contractor has submitted the required survey request.

4-8003 During the Course of Work

During work operations, take the following steps:

4-8003 During the Course of Work

- Ensure the grading of areas in which fence is to be placed and the excavation of high points that interfere with the placing of wire or mesh. However, do not permit indiscriminate clearing where clearing and grubbing is restricted to the slope line.

- Observe the placing of fence posts. Also, measure the spacing of posts and sufficiently measure the depth of holes to ensure placement to proper depths. Note such measurements in the daily report. Spacing should not exceed the spacing specified or shown in the plans.
- Observe the placement of corner posts and pull posts to ensure they are placed at required locations and according to specified details. Also, ensure that the proper type and number of brace posts and diagonal wires are used. The configuration of the brace posts depends on the distance between the corner post and the next corner, end, or pull post.
- Decide on which side of the posts the contractor should place fabric when the side is not specified. For barbed wire and wire mesh fence, the barbed wire or wire mesh is placed on the property owner's side of the posts, unless otherwise shown on plans or in right-of-way agreements. For chain link fence, the fabric generally is placed on the highway side of the posts. However, the wire or fabric may be placed on either side, and it is recommended that the maintenance superintendent be consulted for any preference.
- Inspect the fastening of wire or fabric to ensure the use of specified materials and methods.
- Ensure fencing is snubbed or guyed at all grade depressions as specified.

**4-8004
Measurement and
Payment**

4-8004 Measurement and Payment

Keep records and make measurements of fence construction sufficient to support both partial and final payment. Pay only for completed lengths except for incidental work as covered in Section 3-9, "Measurement and Payment," of this manual.

Consider using a tracking system to help prevent duplication or omissions of quantities.